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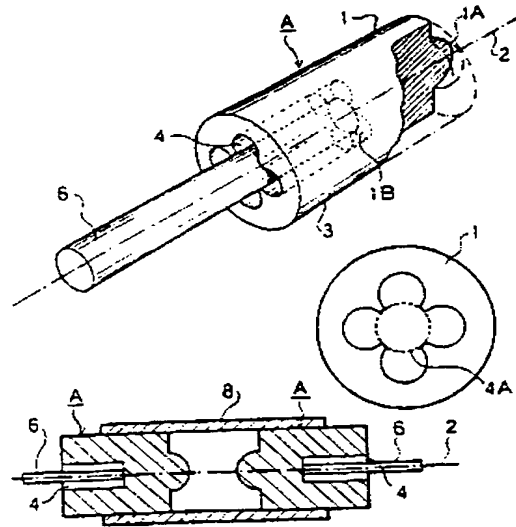
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APPLICANT : NIPPON TELEGR & TELEPH CORP
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TITLE : OPTICAL FIBER CONNECTOR



ABSTRACT : PURPOSE: To facilitate assembling operation and to decrease the number of components by forming a sleeve hole of a part where the element wire of an optical fiber is held and a part where the core of the optical fiber is held.

CONSTITUTION: A plug A consists of a sleeve 3 provided with a plano-convex lens 1 at one end and a lens 1 and sleeve 3 are formed integrally of a transparent resin material. The sleeve 3 is a columnar member and the plano-convex lens 1 has its convex surface positioned outside so that the center axis of the sleeve 3 is aligned with the center axis of the plano-convex lens 1; and the focal length of the plano-convex lens 1 is so determined that projection light from the end surface of the optical fiber 6 abutting on the plane side 1B is expanded to become parallel light. A couple of plugs A are fitted in an array sleeve 8 so that the convex surface side of the plane-convex lens 1 face them, and this couple of plugs A are coupled having their optical axes 2 aligned with each other. The array sleeve 8 uses a slit sleeve which is circumscribed with the plugs A to hold them or has elasticity.

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